

We claim:

1. The use of melamine resin sheets and/or films produced from cellulosic fiber materials post- or pre- and post-impregnated with an aqueous solution comprising

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- (i) a melamine-formaldehyde condensate,
- (ii) an etherified melamine-formaldehyde condensate, and
- (iii) a polymer dispersion

10 for coating three-dimensionally structured surfaces and/or moldings (3D coating).

2. The use as claimed in claim 1, wherein the aqueous solution comprises

15 (i) from 5 to 50% by weight of a melamine-formaldehyde condensation product,  
(ii) from 5 to 50% by weight of an etherified melamine-formaldehyde condensate, and  
(iii) from 20 to 90% by weight of a polymer dispersion,

the amounts of components (i), (ii) and (iii) adding up to 100% by weight and being based on the liquid resin mixture.

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3. The use as claimed in claim 1 or 2, wherein the dispersion (iii) comprises copolymers of acrylates comprising carboxyl, hydroxyl, amide, glycidyl, carbonyl, N-methyol, N-alkoxymethyl, amino and/or hydrazo groups.

25 4. The use as claimed in any of claims 1 to 3, wherein the aqueous solution further comprises from 0.1 to 50% by weight of urea based on 100% by weight of the mixture of (i) to (iii).

5. The use as claimed in any of claims 1 to 3, wherein the aqueous solution comprises

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- (i) from 10 to 30% by weight of a melamine-formaldehyde condensation product,
- (ii) from 10 to 40% by weight of an etherified melamine-formaldehyde condensation product, and
- (iii) from 30 to 80% by weight of a polymer dispersion,

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the amounts of components (i), (ii) and (iii) adding up to 100% by weight and being based on the liquid resin mixture.

6. The use as claimed in any of claims 1 to 5 for coating articles having 3D surfaces and/or sharp-edged elements.
7. The use as claimed in any of claims 1 to 5 for coating with a single melamine resin sheet  
5 and/or film.
8. The use as claimed in any of claims 1 to 5 for coating woodbase materials.
9. The use as claimed in any of claims 1 to 5 for coating oriented strand boards (OSB).  
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10. The use as claimed in claim 1, wherein the cellulosic fiber materials are pre-impregnated  
with melamine-formaldehyde impregnating resins or with a mixture of melamine-  
formaldehyde impregnating resins and coating resins or with a mixture of urea-  
formaldehyde resins and melamine-urea-formaldehyde resins and post-impregnated with  
15 the aqueous solution of (i) to (iii) as set forth in claim 1.
11. A synthetic resin mixture for impregnating cellulosic fiber materials, comprising  
  
20 (i) from 5 to 50% by weight of a melamine-formaldehyde condensation product,  
(ii) from 5 to 50% by weight of an etherified melamine-formaldehyde condensation  
product, and  
(iii) from 40 to 90% by weight of a copolymer in aqueous dispersion form which is  
crosslinkable by condensation reaction;  
  
25 the amounts of components (i), (ii) and (iii) adding up to 100% by weight and being  
based on the liquid resin mixture
12. A synthetic resin mixture as claimed in claim 11, which uses as component (iii) a copoly-  
mer of acrylates comprising carboxyl, hydroxyl, amide, glycidyl, carbonyl, N-methylol, N-  
30 alkoxyethyl, amino and/or hydrazo groups.
13. A melamine resin sheet or film impregnated with a synthetic resin mixture as claimed in  
claim 11 or 12.
- 35 14. A method of 3D coating which comprises applying a melamine resin sheet and/or film as  
claimed in claim 13 two-dimensionally in one operation to the three-dimensional structure  
of a material.

15. A method of 3D coating which comprises producing melamine resin sheets and/or films from cellulosic fiber materials post- or pre- and post-impregnated with the aqueous solution of any of claims 1 to 3 and applying them to the three-dimensionally structured surface and/or molding to be coated.